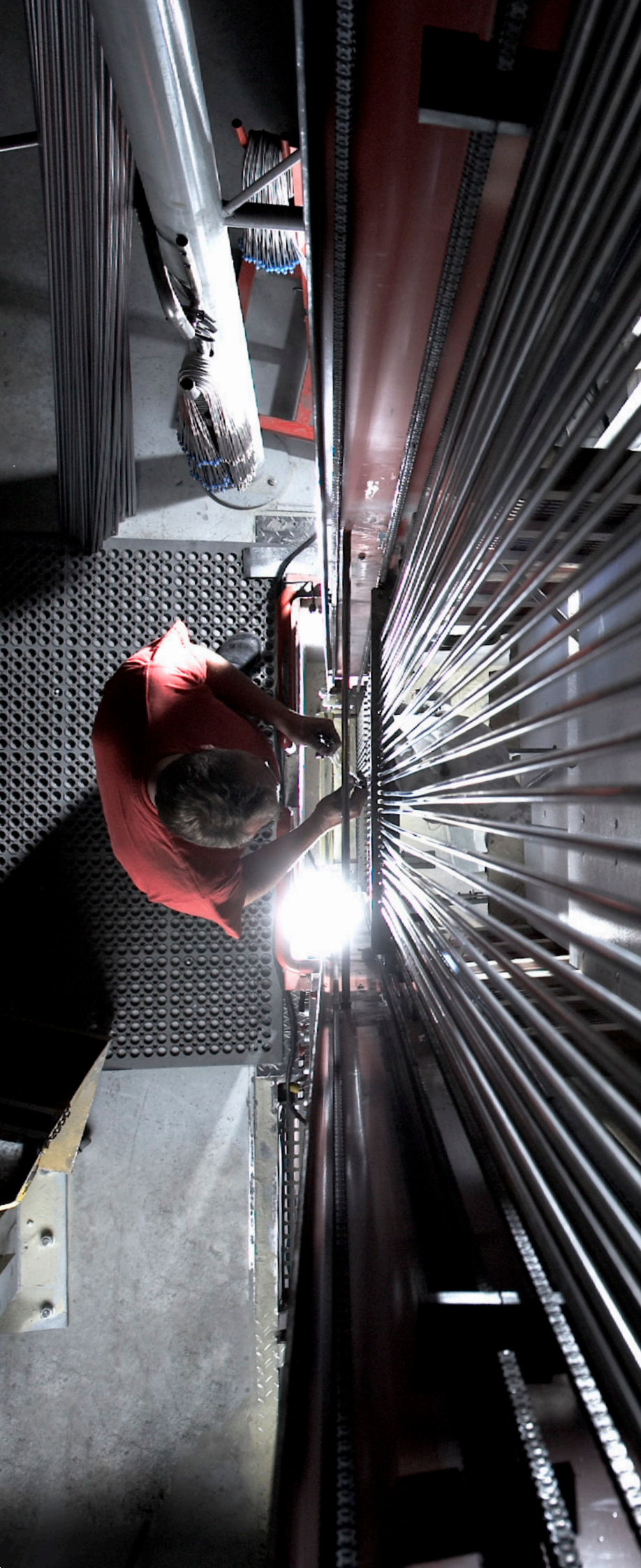


PRODUCT CATALOGUE

**JEVI** 





JEVI is the leading manufacturer of electrical heating solutions in Denmark. A significant investment in product development, new machinery and skilled staff has strengthened our market position during the past few years. Our products are sold all over the world to a wide range of industrial customers.

For 80 years we have supplied the industry with heating technology and have thus gained an extensive know-how which is constantly being used for the benefit of our customers.

We are specialists in complete solutions and special tasks and our engineers and technical support team are always at your service - from first draft to finished unit.

We have production facilities in Denmark and the Netherlands.

Our product range include both standard and special products within explosion proof heaters, heating of items, heating of liquid, heating of air, room heating, frost protection and regulation.

JEVI A/S and SINUS-JEVI Electric Heating BV are certified according to EN ISO 9001 and all items and constructions to be used in explosion proof areas are approved according to ATEX.

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## HEATING OF SOLIDS

### NOZZLE HEATERS

30 degree cable entry and 500 mm cable. The below products only represent a small part of our product range - please contact our technical department for further information on stock items as well as special constructions.

Item no.				
58803123	Ø30/31 x 25	230 V	110 W	
58803149	Ø30/31 x 35	230 V	160 W	
58803511	Ø34/35 x 20	230 V	95 W	
58804113	Ø40/41 x 20	230 V	125 W	
58804121	Ø40/41 x 25	230 V	160 W	
58804535	Ø44/45 x 30	230 V	200 W	
58804550	Ø44/45 x 38	230 V	270 W	
58804568	Ø44/45 x 45	230 V	310 W	
58804915	Ø50/51 x 20	230 V	140 W	
58805128	Ø50/51 x 25	230 V	185 W	
58805136	Ø50/51 x 30	230 V	225 W	
58805524	Ø54/55 x 25	230 V	200 W	
58806134	Ø60/61 x 30	230 V	275 W	
58807173	Ø70/71 x 50	230 V	560 W	
58808189	Ø80/81 x 50	230 V	630 W	
58809591	Ø94/95 x 60	230 V	910 W	



### CERAMIC INFRARED HEATING ELEMENTS

Available stock item as flat or curved elements. All types are supplied with minimum 100 mm ceramic beaded power leads and if requested all types can be delivered with embedded K sensor. The below products only represent a small part of our product range.

Item no.				
58811449	HTE	230 V	125 W	122 x 60 mm, curved
58811308	SFSE	230 V	250 W	122 x 122 mm, flat
58811316	SFSE	230 V	300 W	122 x 122 mm, flat
58811373	SFSE	230 V	750 W	122 x 122 mm, flat
58811167	FFE	230 V	400 W	245 x 60 mm, flat
58811209	FFE	230 V	750 W	245 x 60 mm, flat
58811654	FTE	230 V	150 W	245 x 60 mm, curved
58811662	FTE	230 V	250 W	245 x 60 mm, curved
58811233	FFE	230 V	1000 W	245 x 60 mm, flat



Item no. 58811373



## BAND HEATERS

Band heaters are used in e.g. extruders and plastic casting machines. The heaters are produced with special measurements, voltages and output as well as various reliefs. The elements are available as sealed micaite or as ceramic band heaters - please contact our technical department for further information.



## HIGH DENSITY CARTRIDGE HEATERS CCHC



High density cartridge heaters are used for e.g. heating of items requiring relatively high power in restrained spaces, e.g. in tools.

The heaters are available for 230 V and are supplied with 250 mm wire. The pipe shell is ground to a tolerance of H7.

The below products only represent a small part of our product range - please contact our technical department on stock items as well as special constructions.

Item no.			
9180003	Ø6,5 x 40	230 V	100 W
9180029	Ø6,5 x 40	230 V	175 W
91800102	Ø6,5 x 60	230 V	200 W
91800110	Ø6,5 x 60	230 V	250 W
91800151	Ø6,5 x 80	230 V	300 W
91800177	Ø6,5 x 100	230 V	150 W
91800193	Ø6,5 x 100	230 V	400 W
91800201	Ø8,0 x 40	230 V	50 W
91800219	Ø8,0 x 40	230 V	160 W
91800235	Ø8,0 x 40	230 V	200 W
91800292	Ø8,0 x 60	230 V	125 W
91800342	Ø8,0 x 80	230 V	200 W
91800375	Ø8,0 x 100	230 V	200 W
91800391	Ø8,0 x 100	230 V	400 W
91800417	Ø8,0 x 130	230 V	400 W
91800425	Ø10,0 x 40	230 V	100 W
91800441	Ø10,0 x 40	230 V	200 W
91800524	Ø10,0 x 60	230 V	150 W
91800540	Ø10,0 x 60	230 V	300 W
91800557	Ø10,0 x 60	230 V	400 W
91800581	Ø10,0 x 80	230 V	250 W
91800599	Ø10,0 x 80	230 V	400 W
91800623	Ø10,0 x 100	230 V	200 W
91800649	Ø10,0 x 100	230 V	500 W
91800672	Ø10,0 x 130	230 V	300 W
91800680	Ø10,0 x 130	230 V	500 W
91800698	Ø10,0 x 130	230 V	800 W
91800706	Ø10,0 x 160	230 V	400 W
91800714	Ø10,0 x 160	230 V	600 W
91800847	Ø12,5 x 60	230 V	300 W
91800870	Ø12,5 x 80	230 V	200 W
91800896	Ø12,5 x 80	230 V	500 W

*to be continued on next page...*

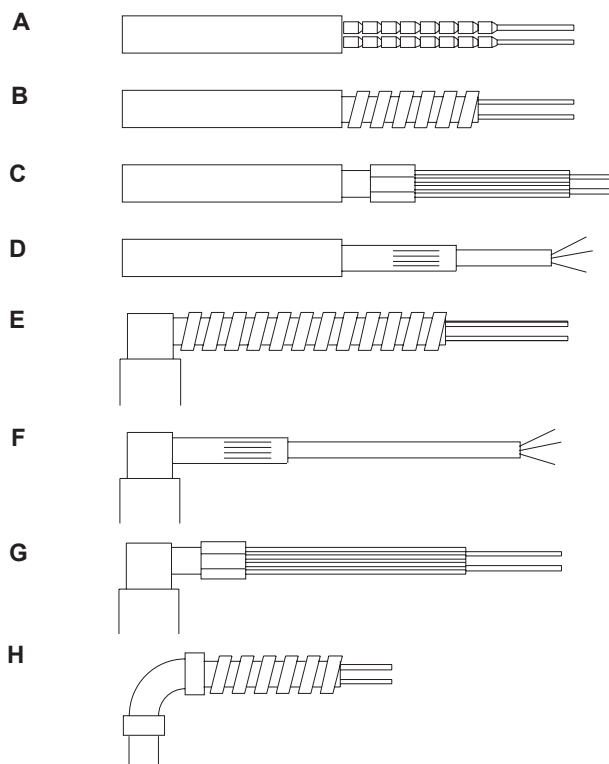


## HEATING OF SOLIDS

Item no.			
91800912	Ø12,5 x 80	230 V	750 W
91800946	Ø12,5 x 100	230 V	600 W
91800961	Ø12,5 x 100	230 V	1000 W
91800979	Ø12,5 x 130	230 V	400 W
91800995	Ø12,5 x 130	230 V	1000 W
91801019	Ø12,5 x 160	230 V	500 W
91801043	Ø12,5 x 200	230 V	600 W
91801050	Ø12,5 x 200	230 V	1000 W
91801265	Ø16,0 x 100	230 V	315 W
91801266	Ø16,0 x 100	230 V	500 W
91801357	Ø16,0 x 160	230 V	600 W
91801431	Ø16,0 x 250	230 V	1600 W

Item no.	
91910000	Heating paste, 140 gram, suitable for -25°C to +600°C

Below is a small part of various terminations - please contact our technical department for further information.



## HEATING OF AIR

### DUCT HEATERS



Duct heaters are designed for use in climate control, heat generation and ventilation systems. Special constructions for e.g. grain dryers, process systems, ships as well as high temperature duct heaters are made upon request.

#### STANDARD DESIGN TYPE EFR - ON STOCK

Item no.			
21800016	230 V	335 W	Ø125 x 400
21800024	230 V	670 W	Ø125 x 400
21800032	230 V	1000 W	Ø125 x 400
21800040	230 V	2000 W	Ø125 x 400
21800057	230 V	335 W	Ø160 x 400
21800081	230 V	670 W	Ø160 x 400
21800115	230 V	1000 W	Ø160 x 400
21800149	230 V	2000 W	Ø160 x 400
21800164	230 V	335 W	Ø200 x 400
21800180	230 V	670 W	Ø200 x 400
21800206	230 V	1000 W	Ø200 x 400
21800222	230 V	2000 W	Ø200 x 400
21800248	230 V	335 W	Ø250 x 400
21800263	230 V	670 W	Ø250 x 400
21800289	230 V	1000 W	Ø250 x 400
21800305	230 V	2000 W	Ø250 x 400



#### STANDARD DESIGN TYPE EFRS - NOT ON STOCK

Item no.			
21800306	3 x 400 V	3,3 kW	Ø200 x 400
21800307	3 x 400 V	4,8 kW	Ø200 x 400
21800308	3 x 400 V	6,0 kW	Ø250 x 400
21800309	3 x 400 V	7,5 kW	Ø250 x 400
21800310	3 x 400 V	9,6 kW	Ø250 x 400
21800311	3 x 400 V	6,3 kW	Ø315 x 400
21800312	3 x 400 V	9,6 kW	Ø315 x 400





## HEATING OF AIR

### STANDARD DESIGN TYPE EFFK - NOT ON STOCK

Item no.				
21803051	3 x 400 V	5,25 kW	3 grp.	300 x 300 x 300
21803101	3 x 400 V	9,60 kW	3 grp.	300 x 300 x 300
21803150	3 x 400 V	18,90 kW	3 grp.	300 x 300 x 300
21804109	3 x 400 V	10,80 kW	3 grp.	400 x 400 x 400
21804190	3 x 400 V	18,90 kW	3 grp.	400 x 400 x 400
21804281	3 x 400 V	29,40 kW	4 grp.	400 x 400 x 400
21804406	3 x 400 V	38,10 kW	4 grp.	400 x 400 x 400
21805239	3 x 400 V	24,60 kW	4 grp.	500 x 500 x 500
21805502	3 x 400 V	48,60 kW	4 grp.	500 x 500 x 500
21805775	3 x 400 V	76,60 kW	4 grp.	500 x 500 x 500
21806328	3 x 400 V	31,50 kW	4 grp.	600 x 600 x 600
21806591	3 x 400 V	58,50 kW	4 grp.	600 x 600 x 600
21806955	3 x 400 V	94,50 kW	4 grp.	600 x 600 x 600
21806112	3 x 400 V	112,50 kW	4 grp.	600 x 600 x 600



### GROUPING OF DUCT HEATERS

Item no.	Number of groups	Group 1	Group 2	Group 3	Group 4
21803051	3	0,75	1,5	3,0	-
21803101	3	1,5	2,7	5,4	-
21803150	3	2,7	5,4	10,8	-
21804109	3	1,5	3,3	6,2	-
21804190	3	2,7	5,4	10,8	-
21804281	4	2,1	3,9	7,8	15,6
21804406	4	2,7	5,4	9,6	20,4
21805239	4	1,5	3,3	6,6	13,2
21805502	4	3,3	6,6	13,2	25,5
21805775	4	5,1	10,2	20,4	40,8
21806328	4	2,1	4,2	8,4	16,8
21806591	4	3,9	7,8	15,6	31,2
21806955	4	6,3	12,6	25,2	50,4
21806112	4	7,5	15,0	30,0	60,0

We produce duct heaters on request - please contact our sales department for further information.



Produced upon request - type EFFL

## HEATING OF AIR

### ANTI-CONDENSATION HEATER

Heating elements for dehumidification of sealed switchboards and control cabinets.

Item no.				
60000220	PTC	L30 x B25 x D12.5	120-240 V	8 W
60505005	PTC	L75 x W72 x D57	12-48 V	15 W
60505013	PTC	L75 x W72 x D57	110-240 V	15 W
60505021	OHMSK	L145 x W72 x D57	230 V	75 W
60505039	PTC	L100 x W116 x D33	12-48 V	20 W
60505047	PTC	L100 x W116 x D33	110-240 V	20 W
60505054	PTC	L100 x W116 x D33	220-440 V	20 W
60505062	PTC	L250 x W116 x D33	12-48 V	40 W
60505070	PTC	L250 x W116 x D33	110-240 V	40 W
60505088	PTC	L250 x W116 x D33	220-440 V	40 W
60505096	OHMSK	L250 x W116 x D33	230 V	100 W
60505104	OHMSK	L250 x W116 x D33	230 V	160 W

60900020	EEx T4	L100 x W54 x D54	230 V	100 W
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Item no.	
09600227	Bracket for anti-condensation heater
09600252	Bracket for anti-condensation heater Ex
09600244	Bracket for anti-condensation heater 72 mm
09600610	Bracket for anti-condensation heater 72 mm (long version)



Item no. 60000220



Item no. 60505054



Item no. 60900020

### INFRATEMPER RADIANT HEATER

INFRATEMPER is for both indoor and outdoor use and can be mounted on wall or ceiling. The TA series is splash-proof and is thus suitable for outdoor use without cover. The required output depends on the mounting height, surrounding temperature and duration of the stay. TA-R is adjustable to 1/4, 1/2 and 1/1 output. The heating time is 2-5 min. The colour of the surface is RAL 9010.

The IHS series is IP54 and is thus suitable for application in e.g. the fishing and canning industry, at dairies and abattoirs. The surface is made of stainless steel and ends in black structure varnish aluminium.

Item no.				
78100013	TA-50	230 V	500 W	L740 mm
78100021	TA-100	230 V	1000 W	L1211 mm
78100039	TA-150	230 V	1500 W	L1785 mm
78100047	TA-200	230 V	2000 W	L2215 mm
78100054	TA-R 100	230 V	1000 W	L725 mm
78100112	IHS-100	230 V	1000 W	L925 mm
78100120	IHS-150	230 V	1500 W	L1230 mm
78100062	TA-50	400 V	500 W	L740 mm
78100070	TA-100	400 V	1000 W	L1211 mm
78100088	TA-150	400 V	1500 W	L1785 mm
78100096	TA-200	400 V	2000 W	L2215 mm
78100104	TA-R 100	400 V	1000 W	L725 mm



Item no. 78100112



Item no. 78100104



**VLE FAN HEATER**



Ideal for use in areas where high output is needed and where materials are able to withstand aggressive conditions at sea, on offshore installations, in warehouses and in large manufacturing facilities.

The VLE fan heater is produced in 2 different materials and we recommend:

- stainless steel AISI 316L for offshore and other harsh environments
- cabinet in galvanized steel with coated control panel for onshore use, sports halls, warehouses and manufacturing facilities

**VLE 4**

- Size: W630 x H460 x D590 mm
- Frequency: 50/60 Hz
- Degree of protection for control panel: IP66
- Degree of protection for fan unit: IP44

Item no.				
21410106			3x230 V	24 A*
21410107			3x380 V	15 A*
21410108	Stainless steel AISI 316L	VLE 4 3-6-9 kW	3x400 V	14 A*
21410109			3x440 V	13 A*
21410110			3x480 V	12 A*
21410111			3x690 V	9 A*
21410118				3x230 V
21410119	Stainless steel AISI 316L	VLE 4 3-9-12 kW	3x380 V	20 A*
21410120			3x400 V	19 A*
21410121			3x440 V	17 A*
21410122			3x480 V	16 A*
21410123			3x690 V	12 A*
21410100			3x230 V	24 A*
21410101	Cabinet galvanized steel and coated control panel	VLE 4 3-6-9 kW	3x380 V	15 A*
21410102			3x400 V	14 A*
21410103			3x440 V	13 A*
21410104			3x480 V	12 A*
21410105			3x690 V	9 A*
21410112			3x230 V	32 A*
21410113	Cabinet galvanized steel and coated control panel	VLE 4 3-9-12 kW	3x380 V	20 A*
21410114			3x400 V	19 A*
21410115			3x440 V	17 A*
21410116			3x480 V	16 A*
21410117			3x690 V	12 A*

\* Current (minimum supply)



VLE 5 and VLE 6 fan heaters are on the following 2 pages.

## HEATING OF AIR

### VLE 5

- Size: W740 x H570 x D690 mm
- Frequency: 50/60 Hz
- Degree of protection for control panel: IP66
- Degree of protection for fan unit: IP54

Artikelnr.				
21410130			3x230 V	39 A*
21410131			3x380 V	24 A*
21410132	Stainless steel AISI 316L	VLE 5 6-9-15 kW	3x400 V	23 A*
21410133			3x440 V	21 A*
21410134			3x480 V	20 A*
21410135			3x690 V	14 A*
21410142			3x230 V	62 A*
21410143	Stainless steel AISI 316L	VLE 5 9-15-24 kW	3x380 V	38 A*
21410144			3x400 V	36 A*
21410145			3x440 V	33 A*
21410146			3x480 V	30 A*
21410147			3x690 V	22 A*
21410124	Cabinet galvanized steel and coated control panel	VLE 5 6-9-15 kW	3x230 V	39 A*
21410125			3x380 V	24 A*
21410126			3x400 V	23 A*
21410127			3x440 V	21 A*
21410128			3x480 V	20 A*
21410129			3x690 V	14 A*
21410136	Cabinet galvanized steel and coated control panel	VLE 5 9-15-24 kW	3x230 V	62 A*
21410137			3x380 V	38 A*
21410138			3x400 V	36 A*
21410139			3x440 V	33 A*
21410140			3x480 V	30 A*
21410141			3x690 V	22 A*

\* Current (minimum supply)





## HEATING OF AIR

### VLE 6

- Size: W855 x H685 x D760 mm
- Frequency: 50/60 Hz
- Degree of protection for control panel: IP66
- Degree of protection for fan unit: IP54

Item no.				
21410154			3x400 V	45 A*
21410155	Stainless steel	VLE 6	3x440 V	41 A*
21410156	AISI 316L	12-18-30 kW	3x480 V	38 A*
21410157			3x690 V	27 A*
21410164			3x400 V	53 A*
21410165	Stainless steel	VLE 6	3x440 V	49 A*
21410166	AISI 316L	12-24-36 kW	3x480 V	45 A*
21410167			3x690 V	32 A*
21410149	Cabinet		3x400 V	45 A*
21410150	galvanized steel	VLE 6	3x440 V	41 A*
21410151	and coated	12-18-30 kW	3x480 V	38 A*
21410152	control panel		3x690 V	27 A*
21410159	Cabinet		3x400 V	53 A*
21410160	galvanized steel	VLE 6	3x440 V	49 A*
21410161	and coated	12-24-36 kW	3x480 V	45 A*
21410162	control panel		3x690 V	32 A*

\* Current (minimum supply)



### OPTIONS FOR VLE FAN HEATERS

For our above mentioned standard design it is possible to buy:

Item no.	
19400501	External start/stop switch of fan unit, IP66 This allows the fan heater to be used for circulation of cold air
19400502	External room thermostat 0-40°C IP65
19400505	External room thermostat 0-40°C IP44
19400503	External control of fan unit Sound level can be reduced to dB 50 at low fan unit speed

## HEATING OF AIR

### VLEx FAN HEATERS

For use in potentially explosive atmosphere (zone 1 & 2). The fan heater is for fix mounting and is made of materials able to withstand aggressive effects at offshore installations, in warehouses and for large manufacturing facilities.

Cabinet, wall bracket and heater junction box are made of stainless steel AISI 316L, d-enclosure is in cast aluminium and heating elements are also in AISI 316L (bright annealed).

Degree of protection for heater junction box is IP66 and IP55 for the fan motor.

Delivery **without** cable gland for power cable.

See our options for cable glands and other options on page 18.

**VLEx comes in 3 sizes: S, M and L, in both 50 and 60 Hz.**

**The 3 sizes are made for temperature class T3 or T4.**

**If the fan is supplied with a connection piece for hose connection (Ø290 mm), select model "3R".**

See our standard range on the following pages as well as information regarding power, voltage, size etc. For more technical information you are welcome to contact us or visit our homepage, [www.jevi.dk](http://www.jevi.dk) - see under "heating of air".

#### VLEx - S / T3

**SIZE: W780 x H500 x D755 mm**

Item no.					
50Hz	60Hz				
21960201	21960202		3x400 V	6A*	
21960203	21960204		3x440 V	6A*	
21960205	21960206	3,5 kW	3x480 V	5A*	51/55 dB(A)
21960207	21960208		3x690 V	4A*	
21960209	21960210		3x400 V	11A*	
21960211	21960212		3x440 V	10A*	
21960213	21960214	7 kW	3x480 V	9A*	55/61 dB(A)
21960215	21960216		3x690 V	7A*	
21960217	21960218		3x400 V	16A*	
21960219	21960220		3x440 V	15A*	55/64 dB(A)
21960221	21960222	10,6 kW	3x480 V	14A*	
21960223	21960224		3x690 V	10A*	

\* Current (minimum supply)

*to be continued on next page...*



## HEATING OF AIR

### VLEx - M / T3

SIZE: W936 x H665 x D755 mm



Item no.		50Hz	60Hz			
21960225	21960226			3x400 V	18A*	
21960227	21960228			3x440 V	16A*	
21960229	21960230	11,7 kW		3x480 V	15A*	60/64 dB(A)
21960231	21960232			3x690 V	11A*	
21960233	21960234			3x400 V	24A*	
21960235	21960236			3x440 V	21A*	
21960237	21960238	15,6 kW		3x480 V	20A*	60/64 dB(A)
21960239	21960240			3x690 V	14A*	
21960241	21960242			3x400 V	29A*	
21960243	21960244			3x440 V	27A*	
21960245	21960246	19,5 kW		3x480 V	24A*	60/64 dB(A)
21960247	21960248			3x690 V	17A*	

### VLEx - L / T3

SIZE: W936 x H665 x D950 mm

Item no.		50Hz	60Hz			
21960249	21960250			3x400 V	35A*	
21960251	21960252			3x440 V	32A*	
21960253	21960254	23,4 kW		3x480 V	30A*	65/68 dB(A)
21960255	21960256			3x690 V	21A*	
21960257	21960258			3x400 V	41A*	
21960259	21960260			3x440 V	37A*	
21960261	21960262	27,3 kW		3x480 V	34A*	65/68 dB(A)
21960263	21960264			3x690 V	24A*	
21960265	21960266			3x400 V	47A*	
21960267	21960268			3x440 V	42A*	
21960269	21960270	31,2 kW		3x480 V	39A*	65/68 dB(A)
21960271	21960272			3x690 V	27A*	
21960273	21960274			3x400 V	52A*	
21960275	21960276			3x440 V	48A*	
21960277	21960278	35,1 kW		3x480 V	44A*	65/68 dB(A)
21960279	21960280			3x690 V	30A*	

\* Current (minimum supply)

to be continued on next page...

## HEATING OF AIR

### VLEx - S / T4

SIZE: W780 x H500 x D755 mm

Item no.					
50Hz	60Hz				
21960501	21960502	2,7 kW	3x380 V	5A*	51/55 dB(A)
21960501	21960502		3x400 V	6A*	
21960503	21960504	3,0 kW	3x440 V	5A*	51/55 dB(A)
21960505	21960506		3x480 V	5A*	
21960507	21960508		3x690 V	4A*	
21960509	21960510		6,0 kW	3x380 V	
21960509	21960510		3x400 V	12A*	
21960511	21960512	6,7 kW	3x440 V	11A*	55/61 dB(A)
21960513	21960514		3x480 V	10A*	
21960515	21960516		3x690 V	7A*	



### VLEx - M / T4

SIZE: W936 x H665 x D755 mm

Item no.					
50Hz	60Hz				
21960517	21960518	8,9 kW	3x380 V	17A*	60/64 dB(A)
21960517	21960518		3x400 V	18A*	
21960519	21960520	9,9 kW	3x440 V	16A*	60/64 dB(A)
21960521	21960522		3x480 V	15A*	
21960523	21960524		3x690 V	11A*	

### VLEx - L / T4

SIZE: W936 x H665 x D950 mm

Item no.					
50Hz	60Hz				
21960525	21960526	11,9 kW	3x380 V	22A*	65/68 dB(A)
21960525	21960526		3x400 V	24A*	
21960527	21960528	13,2 kW	3x440 V	21A*	65/68 dB(A)
21960529	21960530		3x480 V	20A*	
21960531	21960532		3x690 V	14A*	
21960533	21960534	16,0 kW	3x380 V	30A*	65/68 dB(A)
21960533	21960534		3x400 V	31A*	
21960535	21960536	17,7 kW	3x440 V	29A*	65/68 dB(A)
21960537	21960538		3x480 V	26A*	
21960539	21960540		3x690 V	18A*	

\* Current (minimum supply)

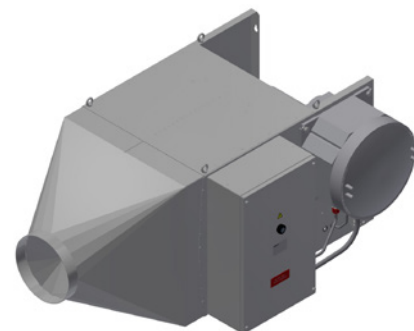
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## HEATING OF AIR

### VLEx - S / 3R T3

SIZE: W780 x H500 x D1174 mm (Ø290 mm)



Item no.					
50Hz	60Hz				
21960601	21960602	2,7 kW	3x380 V	5A*	51/55 dB(A)
21960601	21960602		3x400 V	6A*	
21960603	21960604	3,0 kW	3x440 V	5A*	51/55 dB(A)
21960605	21960606		3x480 V	5A*	
21960607	21960608		3x690 V	4A*	
21960609	21960610		6,0 kW	3x380 V	
21960609	21960610	3x400 V	12A*		
21960611	21960612	6,7 kW	3x440 V	11A*	56/61 dB(A)
21960613	21960614		3x480 V	10A*	
21960615	21960616		3x690 V	7A*	

### VLEx - M / 3R T3

SIZE: W936 x H665 x D1276 mm (Ø290 mm)

Item no.					
50Hz	60Hz				
21960617	21960618	8,9 kW	3x380 V	17A*	60/64 dB(A)
21960617	21960618		3x400 V	18A*	
21960619	21960620	9,9 kW	3x440 V	16A*	60/64 dB(A)
21960621	21960622		3x480 V	15A*	
21960623	21960624		3x690 V	11A*	

### VLEx - L 3R T3

SIZE: W936 x H665 x D1546 mm (Ø290 mm)

Item no.					
50Hz	60Hz				
21960625	21960626	11,9 kW	3x380 V	22A*	65/68 dB(A)
21960625	21960626		3x400 V	24A*	
21960627	21960628	13,2 kW	3x440 V	21A*	65/68 dB(A)
21960629	21960630		3x480 V	20A*	
21960631	21960632		3x690 V	14A*	
21960633	21960634	16,0 kW	3x380 V	30A*	65/68 dB(A)
21960633	21960634		3x400 V	31A*	
21960635	21960636	17,7 kW	3x440 V	29A*	65/68 dB(A)
21960637	21960638		3x480 V	26A*	
21960639	21960640		3x690 V	18A*	

\* Current (minimum supply)

to be continued on next page...

## HEATING OF AIR

### OPTIONS FOR VLEx FAN HEATERS

For our above mentioned standard design it is possible to buy:

Item no.	
0802xxxx	Nameplate, stainless steel AISI 316L, size: 120 x 120 mm
19400555	Flow switch, separate d-enclosure
19400551	TSH - Temperature thermostat with automatic reset Built into e-enclosure
19400553	RTD (PT100 sensor and 4-20mA transmitter) Built into e-enclosure. For VLEx S and M
19400567	RTD (PT100 sensor and 4-20mA transmitter) Built into e-enclosure. For VLEx L
19400554	Room thermostat 0-40°C, build into e-enclosure
19400550	Room thermostat 0-40°C build into d-enclosure
19400552	Room thermostat 0-40°C, for mounting on wall
03020370	Cable for connection between room thermostat (19400552) and e-enclosure. Size: 4 x 1,5 mm <sup>2</sup> , diameter Ø10,6 mm Available in full meters
14060049	Main switch, max 25A. Cable diameter Ø9-21 mm
14060050	Main switch, max 40A. Cable diameter Ø12-28 mm
14060051	Main switch, max 80A. Cable diameter Ø16-35 mm
03030141	Connecting cable between main switch and fan heater, for max 32A. Size: 4 x 6 mm <sup>2</sup> , diameter Ø19,5 mm Available in full meters
03030143	Connecting cable between main switch and fan heater, for max 63A. Size: 4 x 16 mm <sup>2</sup> , diameter Ø25,5 mm Available in full meters
19400568	Cable gland*, nickel-plated brass M32/M25/M20 for cable Ø6,5-26,3 mm
19400569	Cable gland*, nickel-plated brass M32 for cable Ø17,0-26,3 mm
19400563	Cable gland*, nickel-plated brass M25 for cable Ø11,1-20,0 mm
19400564	Cable gland*, nickel-plated brass M20 for cable Ø6,5-14,0 mm

\*) When using this cable gland, the length of the power cable must be at least 3m. If the power cable is less than 3m - please contact our technical sales team for further advice.

## HEATING OF AIR

### DELTA FAN HEATER



Application areas include building and construction sites, stables, production areas, warehouses, garages and factories. For stationary as well as transportable use. The fan heater is available in two sizes: 3-9 kW in small cabinet and 15-21 kW in large cabinet. The fan heater is provided in: 1x110V to 3x690V + PE and can be used at 50 Hz and 60 Hz. DELTA fan heater with timer function switches on when the set time has elapsed. Degree of protection for electrical components are IP44 for 3-9kW and IP34 for 15-21kW.

Colour:	RAL 7004 (light grey)
Timer function:	0-24 hour timer (indicated with a "T" below)
Thermostat:	0-40°C
Power switch:	half/full power
Approval:	CE

Dimensions are incl. floor bracket

Item no.				
69825460	DELTA 3000	3kW	1x110V	W410 x H435 x D420
69825461	DELTA 3000 T	3kW	1x110V	W410 x H435 x D420
69820017	DELTA 3000	3kW	1x230V	W410 x H435 x D420
69820025	DELTA 3000 T	3kW	1x230V	W410 x H435 x D420
69820033	DELTA 3000	3kW	3x400V	W410 x H435 x D420
69820041	DELTA 3000 T	3kW	3x400V	W410 x H435 x D420
69825462	DELTA 3000	3kW	3x440V	W410 x H435 x D420
69825463	DELTA 3000 T	3kW	3x440V	W410 x H435 x D420
69825472	DELTA 3000	3kW	3x480V	W410 x H435 x D420
69825473	DELTA 3000 T	3kW	3x480V	W410 x H435 x D420
69825482	DELTA 3000	3kW	3x690V	W410 x H435 x D420
69825483	DELTA 3000 T	3kW	3x690V	W410 x H435 x D420
69820058	DELTA 6000	6kW	3x400V	W410 x H435 x D420
69820066	DELTA 6000 T	6kW	3x400V	W410 x H435 x D420
69825464	DELTA 6000	6kW	3x440V	W410 x H435 x D420
69825465	DELTA 6000 T	6kW	3x440V	W410 x H435 x D420
69825474	DELTA 6000	6kW	3x480V	W410 x H435 x D420
69825475	DELTA 6000 T	6kW	3x480V	W410 x H435 x D420
69825484	DELTA 6000	6kW	3x690V	W410 x H435 x D420
69825485	DELTA 6000 T	6kW	3x690V	W410 x H435 x D420
69820074	DELTA 9000	9kW	3x400V	W410 x H435 x D420
69820082	DELTA 9000 T	9kW	3x400V	W410 x H435 x D420
69825466	DELTA 9000	9kW	3x440V	W410 x H435 x D420
69825467	DELTA 9000 T	9kW	3x440V	W410 x H435 x D420
69825476	DELTA 9000	9kW	3x480V	W410 x H435 x D420
69825477	DELTA 9000 T	9kW	3x480V	W410 x H435 x D420
69825486	DELTA 9000	9kW	3x690V	W410 x H435 x D420
69825487	DELTA 9000 T	9kW	3x690V	W410 x H435 x D420



to be continued on next page...

## HEATING OF AIR

Item no.				
69820090	DELTA 15000	15kW	3x400V	W505 x H540 x D510
69820108	DELTA 15000 T	15kW	3x400V	W505 x H540 x D510
69825468	DELTA 15000	15kW	3x440V	W505 x H540 x D510
69825469	DELTA 15000 T	15kW	3x440V	W505 x H540 x D510
69825478	DELTA 15000	15kW	3x480V	W505 x H540 x D510
69825479	DELTA 15000 T	15kW	3x480V	W505 x H540 x D510
69825488	DELTA 15000	15kW	3x690V	W505 x H540 x D510
69825489	DELTA 15000 T	15kW	3x690V	W505 x H540 x D510

69820116	DELTA 21000	21kW	3x400V	W505 x H540 x D510
69820124	DELTA 21000 T	21kW	3x400V	W505 x H540 x D510
69825470	DELTA 21000	21kW	3x440V	W505 x H540 x D510
69825471	DELTA 21000 T	21kW	3x440V	W505 x H540 x D510
69825480	DELTA 21000	21kW	3x480V	W505 x H540 x D510
69825481	DELTA 21000 T	21kW	3x480V	W505 x H540 x D510
69825490	DELTA 21000	21kW	3x690V	W505 x H540 x D510
69825491	DELTA 21000 T	21kW	3x690V	W505 x H540 x D510

Item no.	
19400639	Wall bracket for small cabinet (3-9 kW)
19400647	Wall bracket for large cabinet (15-21 kW)



## TELCO ELECTRIC RADIATORS



Telco electric radiators are small, compact convection type heaters which provide excellent comfort heating. Telco electric radiators have a higher output by unit length than most other electric radiators on the market. The electric radiator is made from extruded aluminium profiles and the connector housing is made in non-flammable plastic. These features give the radiator good anti-corrosive properties which allows it to be used in wet and dry rooms. This is a small selection of Telco radiators - call us for further information, other models and to order.

### TYPE TU - PROTECTION CLASS IP 22

Electric radiator for use in churches, social centres, etc. Standard low surface temperature electric radiator with thermofuse. Also for use with external control.

Item no.		
98501021	TU03 - without thermostat	H150 x L353 x D86, 300 W, 230 V
98501022	TU08 - without thermostat	H150 x L632 x D86, 800 W, 230 V
98501023	TU12 - without thermostat	H150 x L843 x D86, 1200 W, 230 V
98501024	TU16 - without thermostat	H150 x L1107 x D86, 1600 W, 230V
98501026	TU08 - without thermostat	H150 x L632 x D86, 800 W, 400 V
98501027	TU12 - without thermostat	H150 x L843 x D86, 1200 W, 400 V



### TYPE TIU - PROTECTION CLASS IP 22

Electric radiator for use in churches, social centres, etc. Standard low surface temperature electric radiator with thermofuse and thermostat.

Item no.		
98501030	TIU03 - with thermostat	H150 x L403 x D86, 300 W, 230 V
98501031	TIU08 - with thermostat	H150 x L682 x D86, 800 W, 230 V
98501032	TIU12 - with thermostat	H150 x L893 x D86, 1200 W, 230 V
98501033	TIU16 - with thermostat	H150 x L1157 x D86, 1600 W, 230V
98501035	TIU08 - with thermostat	H150 x L682 x D86, 800 W, 400 V
98501036	TIU12 - with thermostat	H150 x L893 x D86, 1200 W, 400 V

## HEATING OF AIR

### TYPE T2RIB - PROTECTION CLASS IP 44

Electric radiator for use at sea and offshore. With on/off switch, thermostat, thermofuse and security grille.

It is an option to have type T2RIB delivered with EAC certificate.

If an EAC certificate is required, please state this by order.



Item no.		
98501009	T2RIB025	H238 x L379 x D96, 250 W, 230 V
98501010	T2RIB03	H238 x L379 x D96, 300 W, 230 V
98501011	T2RIB04	H238 x L379 x D96, 400 W, 230 V
98501012	T2RIB08	H238 x L629 x D96, 800 W, 230 V
98501013	T2RIB12	H238 x L869 x D96, 1200 W, 230 V
98501014	T2RIB16	H238 x L1134 x D96, 1600 W, 230 V
98501015	T2RIB20	H238 x L1395 x D96, 2000 W, 230 V
98501002	T2RIB025	H238 x L379 x D96, 250 W, 400V
98501003	T2RIB03	H238 x L379 x D96, 300 W, 400 V
98501004	T2RIB04	H238 x L379 x D96, 400 W, 400 V
98501005	T2RIB08	H238 x L629 x D96, 800 W, 400 V
98501006	T2RIB12	H238 x L869 x D96, 1200 W, 400 V
98501007	T2RIB16	H238 x L1134 x D96, 1600 W, 400 V
98501008	T2RIB20	H238 x L1395 x D96, 2000 W, 400 V



## HEATING OF AIR

### FINNED TUBE HEATERS

Finned tube heaters are designed for industrial applications and are suitable for all heating applications at an ambient temperature of up to 60°C. Waterproof in acc. with IP65. Ceramic heating element, metal connection box with cable gland M20.

#### TYPE WD-H, STEEL SHEET EPOXY COATED

Item no.	Type no.			
98301435	020310250	230 V	250 W	L305 mm
98301443	020310500	230 V	500 W	L555 mm
98301450	020311000	230 V	1000 W	L1055 mm
98301468	020311500	230 V	1500 W	L1555 mm
98301476	020312000	230 V	2000 W	L2055 mm

#### TYPE GG-H, GALVANISED STEEL SHEET

Item no.	Type no.			
98301484	020510250	230 V	250 W	L305 mm
98301492	020510500	230 V	500 W	L555 mm
98301500	020511000	230 V	1000 W	L1055 mm
98301518	020511500	230 V	1500 W	L1555 mm
98301526	020512000	230 V	2000 W	L2055 mm

#### ROOM THERMOSTAT - TYPE WD/GG-T

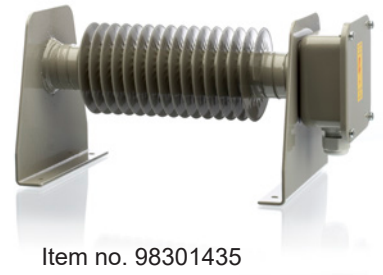
Adjustable from 0-30°C, IP22

With switch, led and indicator, for installation on heater

Item no.	Type no.	
19113117	020200001	10A/230V

#### OPTION WD-H / GG-H

Calculate 2-3 weeks extra in delivery time for this option. Price on request.



Item no. 98301435



## HEATING OF AIR

### EXPLOSION-PROOF FINNED TUBE HEATERS



ERB - explosion-proof finned tube heaters , pressure-resistant design, especially suitable for areas with hazardous gases, vapours or dust. Maximum outside temperature (T3) 200°C and (T4) 135°C with a maximum ambient temperature of 40°C, EN IEC 60079-1 / EN IEC 60079-31 Ex II 2 G Ex db IIC T3/T4 Gb / Ex II 2 D Ex tb IIIC T135°C...T200°C Db. IP66.

Delivery **without** cable gland.

See our options for cable glands on page 25.

#### TYPE D-8500 - EPOXY COATED STEEL

Item no.				
98300114	T3	ERB-5	400 W	L650 mm
98300130	T3	ERB-7	500 W	L850 mm
98300163	T3	ERB-10	750 W	L1150 mm
98300197	T3	ERB-13	1000 W	L1450 mm
98300254	T3	ERB-19	1520 W	L2050 mm
98300312	T3	ERB-25	2000 W	L2650 mm
98300361	T3	ERB-30	2400 W	L3150 mm
98300395	T4	ERB-5	230 W	L650 mm
98300411	T4	ERB-7	320 W	L850 mm
98300445	T4	ERB-10	460 W	L1150 mm
98300478	T4	ERB-13	600 W	L1450 mm
98300536	T4	ERB-19	880 W	L2050 mm
98300593	T4	ERB-25	1160 W	L2650 mm
98300643	T4	ERB-30	1400 W	L3150 mm



#### TYPE D-8505 - STAINLESS STEEL AISI 316

Item no.				
98300668	T3	ERB-5	300 W	L650 mm
98300684	T3	ERB-7	450 W	L850 mm
98300718	T3	ERB-10	675 W	L1150 mm
98300742	T3	ERB-13	930 W	L1450 mm
98300817	T3	ERB-19	1520 W	L2050 mm
98300874	T3	ERB-25	2000 W	L2650 mm
98300924	T3	ERB-30	2400 W	L3150 mm
98300940	T4	ERB-5	150 W	L650 mm
98300965	T4	ERB-7	230 W	L850 mm
98300999	T4	ERB-10	350 W	L1150 mm
98301252	T4	ERB-13	470 W	L1450 mm
98301310	T4	ERB-19	700 W	L2050 mm
98301377	T4	ERB-25	950 W	L2650 mm
98301427	T4	ERB-30	1150 W	L3150 mm



## HEATING OF AIR

### ACCESSORIES/OPTIONS - ERB FINNED TUBE HEATERS

#### CABLE GLANDS

Item no.	
11021252	Ex brass cable gland, type 501-453, model O, M20 for armoured cable. Cable Ø 9.5-16.0 mm
11021393	Ex stainless steel AISI 316 cable gland, type 501-453, model O, M20 for armoured cable. Cable Ø 9.5-16.0 mm
11023004	Ex brass cable gland, type ICG 653, model O, M20 for armoured cable. Cable Ø 9.5-16.0 mm
11023005	Ex stainless steel AISI 316 cable gland, type ICG 653, model O, M20 for armoured cable. Cable Ø 9.5-16.0 mm
11023001	Ex brass cable gland, type 501-421, model O, M20. Cable Ø 6.5-11.9 mm
11023003	Ex stainless steel AISI 316 cable gland, type 501-421, model O, M20. Cable Ø 6.5-11.9 mm
11023006	Ex brass cable gland, type ICG 623, model O, M20. Cable Ø 7.5-11.9 mm
11023007	Ex stainless steel AISI 316 cable gland, type ICG 623, model O, M20. Cable Ø 7.5-11.9 mm



11021252



11023004



11023001



11023006

#### THERMOSTAT - TYPE ERT-10

Ex room thermostat (-20°C to +40°C) for control of explosion-proof finned tube heaters - type D-8500 ERB and D8505 ERB. Ambient temperature from -40°C to +40°C. Size: 106 x 200 x 90 mm. Weight: approx. 1200 gram. IP65  
 Marking: Ex II 2G Ex de IIC T6 Gb - Ex II 2D Ex tb IIIC T130°C Db



Item no.	
90900250	Ex room thermostat - type ERT-10 16A 230 V

#### PROTECTION GRID

Item no.	
98301670	Protection grid, AISI 304 T=2 mm, L=500 mm
98301671	Protection grid, AISI 304 T=2 mm, L=700 mm
98301672	Protection grid, AISI 304 T=2 mm, L=1000 mm
98301673	Protection grid, AISI 304 T=2 mm, L=1300 mm
98301674	Protection grid, AISI 304 T=2 mm, L=1900 mm
98301675	Protection grid, AISI 304 T=2 mm, L=2500 mm
98301676	Protection grid, AISI 304 T=2 mm, L=3000 mm

## HEATING OF LIQUIDS

### IMMERSION HEATERS

Immersion heaters are used for heating of water, liquids, oil. The cold zone is 90 mm. Can also be supplied in other materials as well as cold zone - please contact our technical department regarding large quantities.

### IMMERSION HEATERS FOR WATER (1½")

Heating elements made of nickel-plated copper for heating of water in hot-water tanks, open vessels or similar. 3 x 400 V, 1½" brass plug.

Item no.			
Y-conn.			
92809839	10,4 W/cm <sup>2</sup>	2,25 kW	IL 208 mm
92809847	8,9 W/cm <sup>2</sup>	3,00 kW	IL 300 mm
92809854	8,4 W/cm <sup>2</sup>	4,50 kW	IL 408 mm
92809862	8,1 W/cm <sup>2</sup>	6,00 kW	IL 533 mm
92809870	8,4 W/cm <sup>2</sup>	7,50 kW	IL 655 mm
92809888	8,2 W/cm <sup>2</sup>	9,00 kW	IL 733 mm
Δ-koblet			
92809896	8,2 W/cm <sup>2</sup>	10,00 kW	IL 833 mm

Heating elements made of nickel-plated copper for heating of water in hot-water tanks, open vessels or similar. 3 x 400 V, 2" brass plug.

Item no.			
Y-conn.			
92804830	10,4 W/cm <sup>2</sup>	2,25 kW	IL 207 mm
92804848	8,9 W/cm <sup>2</sup>	3,00 kW	IL 282 mm
92804855	8,4 W/cm <sup>2</sup>	4,50 kW	IL 400 mm
92804863	8,1 W/cm <sup>2</sup>	6,00 kW	IL 535 mm
92800861	11,6 W/cm <sup>2</sup>	6,00 kW	IL 315 mm
92804871	8,4 W/cm <sup>2</sup>	7,50 kW	IL 632 mm
92804889	8,2 W/cm <sup>2</sup>	9,00 kW	IL 775 mm
92800887	11,9 W/cm <sup>2</sup>	9,00 kW	IL 420 mm
Δ-koblet			
92804897	8,2 W/cm <sup>2</sup>	10,00 kW	IL 832 mm

*to be continued on next page...*



Item no. 92800861 and 92800887 with wire



## HEATING OF LIQUIDS

### IMMERSION HEATER FOR OIL (2")

Heating elements made of stainless steel (AISI 304) for heating of oil in e.g. oil preheaters and frost protection of oil containers. 3 x 400 V, 2" brass plug.

Item no.			
<b>Y-conn.</b>			
92201904	1,2 W/cm <sup>2</sup>	0,50 kW	IL 335 mm
92201912	1,1 W/cm <sup>2</sup>	0,75 kW	IL 485 mm
92201920	1,1 W/cm <sup>2</sup>	1,00 kW	IL 660 mm
92201938	1,1 W/cm <sup>2</sup>	1,50 kW	IL 700 mm
92201946	1,0 W/cm <sup>2</sup>	2,00 kW	IL 1025 mm
92602911	1,5 W/cm <sup>2</sup>	0,7 kW	IL 360 mm
92602929	1,6 W/cm <sup>2</sup>	1,0 kW	IL 460 mm
92602937	1,6 W/cm <sup>2</sup>	1,5 kW	IL 660 mm
92602945	1,6 W/cm <sup>2</sup>	2,0 kW	IL 660 mm
92602952	1,5 W/cm <sup>2</sup>	2,5 kW	IL 825 mm
92602960	1,5 W/cm <sup>2</sup>	3,0 kW	IL 1025 mm
92602978	1,5 W/cm <sup>2</sup>	4,0 kW	IL 1450 mm
92202928	2,4 W/cm <sup>2</sup>	1,00 kW	IL 350 mm
92202936	2,3 W/cm <sup>2</sup>	1,50 kW	IL 485 mm
92202944	2,1 W/cm <sup>2</sup>	2,00 kW	IL 660 mm
92202951	2,1 W/cm <sup>2</sup>	3,00 kW	IL 700 mm
92202969	2,1 W/cm <sup>2</sup>	4,00 kW	IL 1025 mm
<b>Δ-conn.</b>			
92203934	3,6 W/cm <sup>2</sup>	1,50 kW	IL 335 mm
92203942	3,4 W/cm <sup>2</sup>	2,25 kW	IL 485 mm
92203959	3,2 W/cm <sup>2</sup>	3,00 kW	IL 660 mm
92203967	3,2 W/cm <sup>2</sup>	4,50 kW	IL 700 mm
92203975	3,1 W/cm <sup>2</sup>	6,00 kW	IL 1025 mm
92605914	4,6 W/cm <sup>2</sup>	2,1 kW	IL 360 mm
92605922	4,8 W/cm <sup>2</sup>	3,0 kW	IL 460 mm
92605930	4,8 W/cm <sup>2</sup>	4,5 kW	IL 660 mm
92605948	4,7 W/cm <sup>2</sup>	6,0 kW	IL 660 mm
92605955	4,6 W/cm <sup>2</sup>	7,5 kW	IL 825 mm
92605963	4,6 W/cm <sup>2</sup>	9,0 kW	IL 1025 mm
92605971	4,6 W/cm <sup>2</sup>	12,0 kW	IL 1450 mm

to be continued on next page...



## HEATING OF LIQUIDS

### IMMERSION HEATERS - AGGRESSIVE LIQUIDS (1½" BR)

Heating elements made of Incoloy 825 for heating of aggressive liquids, chemicals and water. 3 x 400 V, 1½" brass plug. Cold zone is 55 mm.

Item no.			
Y-conn.			
92803030	12,5 W/cm <sup>2</sup>	2,25 kW	IL 175 mm
92803048	11,3 W/cm <sup>2</sup>	3,00 kW	IL 235 mm
92803055	10,7 W/cm <sup>2</sup>	4,50 kW	IL 335 mm
92803063	10,7 W/cm <sup>2</sup>	6,00 kW	IL 435 mm
92803071	10,7 W/cm <sup>2</sup>	7,50 kW	IL 525 mm
92803089	11,0 W/cm <sup>2</sup>	9,00 kW	IL 600 mm

### IMMERSION HEATERS - AGGRESSIVE LIQUIDS (2" BR)

Heating elements made of Incoloy 825 for heating of aggressive liquids, chemicals and water. 3 x 400 V, 2" brass plug. Cold zone is 55 mm.

Item no.			
Y-conn.			
92808039	12,5 W/cm <sup>2</sup>	2,25 kW	IL 175 mm
92808047	11,4 W/cm <sup>2</sup>	3,00 kW	IL 235 mm
92808054	10,7 W/cm <sup>2</sup>	4,50 kW	IL 335 mm
92808062	10,7 W/cm <sup>2</sup>	6,00 kW	IL 435 mm
92808070	10,7 W/cm <sup>2</sup>	7,50 kW	IL 525 mm
92808088	11,0 W/cm <sup>2</sup>	9,00 kW	IL 600 mm
92808096	12,7 W/cm <sup>2</sup>	12,00 kW	IL 730 mm

*to be continued on next page...*



## HEATING OF LIQUIDS

### IMMERSION HEATERS - AGGRESSIVE LIQUIDS (1½" SS)

Heating elements made of Incoloy 825 for heating of aggressive liquids, chemicals and water. 3 x 400 V, 1½" stainless steel plug AISI 316. Cold zone is 55 mm.

Item no.			
Y-conn.			
92815300	11,3 W/cm <sup>2</sup>	3,00 kW	IL 235 mm
92815450	10,7 W/cm <sup>2</sup>	4,50 kW	IL 335 mm
92815600	10,7 W/cm <sup>2</sup>	6,00 kW	IL 435 mm
92815750	10,7 W/cm <sup>2</sup>	7,50 kW	IL 525 mm
92815900	11,0 W/cm <sup>2</sup>	9,00 kW	IL 600 mm

### IMMERSION HEATERS - AGGRESSIVE LIQUIDS (2" SS)

Heating elements made of Incoloy 825 for heating of aggressive liquids, chemicals and water. 3 x 400 V, 2" stainless steel plug AISI 316. Cold zone is 55 mm.

Item no.			
Y-conn.			
92820300	11,4 W/cm <sup>2</sup>	3,00 kW	IL 235 mm
92820450	10,7 W/cm <sup>2</sup>	4,50 kW	IL 335 mm
92820600	10,7 W/cm <sup>2</sup>	6,00 kW	IL 435 mm
92820750	10,7 W/cm <sup>2</sup>	7,50 kW	IL 525 mm
92820900	11,0 W/cm <sup>2</sup>	9,00 kW	IL 600 mm
92821200	12,7 W/cm <sup>2</sup>	12,00 kW	IL 730 mm

### GASKETS FOR IMMERSION HEATERS

Item no.	
10048999	for 1½" RG, Ø48 x Ø60 x 2 mm, max. 250°C
10060994	for 2" RG, Ø60 x Ø75 x 2 mm, max. 250°C

*Junction boxes for immersion heaters - see next page*

**JUNCTION BOXES FOR IMMERSION HEATERS**

The junction boxes can also be supplied without holes for connection of heating elements, for cable assembly, etc. Type B - J are made of galvanized steel. In addition 2 type B are also available in stainless steel AISI 304.

**Item no.**

**Type B - Oval box:**

19905017	1½" RG with 10 mm cover, IP55, PG13,5
19905025	2" RG with 10 mm cover, IP55, PG13,5
19900554	1½" RG. Box in stainless steel AISI 304 with 10 mm cover, IP55, PG13,5
19900547	2" RG. Box in stainless steel AISI 304 with 10 mm cover, IP55, PG13,5
19905033	1½" RG with 35 mm cover, IP55, PG13,5
19905041	2" RG with 35 mm cover, IP55, PG13,5

**Type B - Rectangular box:**

19905058	1½" RG, IP65, M20
19905066	2" RG, IP65, M20

**Type D - Rectangular box:**

19905090	1½" RG, IP44, M20, 3-pole thermofuse 110°C, manual reset
19905108	2" RG, IP44, M20, 3-pole thermofuse 110°C, manual reset

**Type E - Rectangular box:**

19905116	1½" RG, IP22, M20, 3-pole thermostat 30-85°C, outside knob
19905124	2" RG, IP22, M20, 3-pole thermostat 30-85°C, outside knob

**Type H - Rectangular box:**

19905199	1½" RG, IP22, M20, 3-pole thermostat 30-85°C, 3-pole thermofuse 110°C, outside knob
19905207	2" RG, IP22, M20, 3-pole thermostat 30-85°C, 3-pole thermofuse 110°C, outside knob

**Type H - Rectangular box:**

19900489	1½" RG and with plane cover, IP65, M20, 3-pole thermostat 30-85°C, 3-pole thermofuse 110°C, inside settings
19900471	2" RG and with plane cover, IP65, M20, 3-pole thermostat 30-85°C, 3-pole thermofuse 110°C, inside settings

**Type J - Rectangular box:**

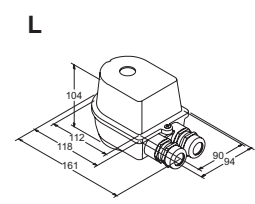
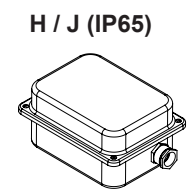
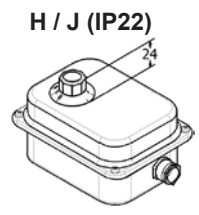
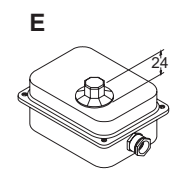
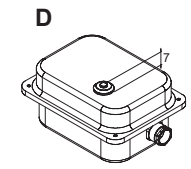
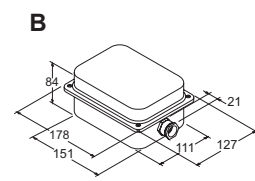
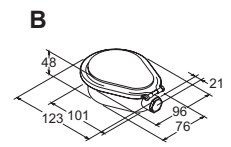
19900216	1½" RG, IP22, M20, 3-pole thermostat 0-45°C, 3-pole thermofuse 76°C, outside knob
19900265	2" RG, IP22, M20, 3-pole thermostat 0-45°C, 3-pole thermofuse 76°C, outside knob

**Type J - Rectangular box:**

19900083	1½" RG and with plane cover, IP65, M20, 3-pole thermostat 0-45°C, 3-pole thermofuse 76°C, inside settings
19900067	2" RG and with plane cover, IP65, M20, 3-pole thermostat 0-45°C, 3-pole thermofuse 76°C, inside settings

**Type L - Oval box:**

19900018	2" RG for special plug, high cover, 2xPG21, with bracket for 1 thermostat or 1 thermofuse
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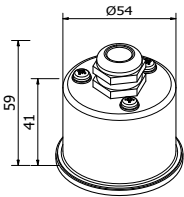


## HEATING OF LIQUIDS

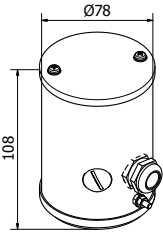
Type AR - MR are made of acid proof stainless steel AISI 316.

Item no.	
<b>Type AR - Round box for:</b>	
19630050	1½" RG, IP65, M20, Ø54mm, H41/59mm
<b>Type BR - Round box for:</b>	
19630001	1½" RG, IP65, M20, Ø78mm, H108mm
19630002	2" RG, IP65, M20, Ø768m, H108mm
<b>Type DR - Round box for:</b>	
19630003	1½" RG, IP65, M20, Ø78mm, H108mm. 3-pole thermofuse 110°C
19630004	2" RG, IP65, M20, Ø78mm, H108mm. 3-pole thermofuse 110°C
<b>Type NR - Round box for:</b>	
19630013	1½" RG, IP65, M16 + M20, Ø78mm, H108mm. 1-pole thermofuse 113°C
19630014	2" RG, IP65, M16 + M20, Ø78mm, H108mm. 1-pole thermofuse 113°C
<b>Type OR - Round box for:</b>	
19630015	1½" RG, IP65, M16 + M20, Ø78mm, H108mm. 1-pole thermofuse 120°C
19630016	2" RG, IP65, M16 + M20, Ø78mm, H108mm. 1-pole thermofuse 120°C
<b>Type ER - Round box for:</b>	
19630005	1½" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 30-85°C
19630006	2" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 30-85°C
19630007	1½" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 30-110°C
19630008	2" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 30-110°C
19630009	1½" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 0-40°C
19630010	2" RG, IP44, M20, Ø78mm, H108/132mm. 3-pole thermostat 0-40°C
<b>Type MR - Round box for:</b>	
19630011	1½" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 30-110°C
19630012	2" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 30-110°C
19630017	1½" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 30-85°C
19630018	2" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 30-85°C
19630019	1½" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 0-40°C
19630020	2" RG, IP44, M16 + M20, Ø78mm, H108/132mm. 1-pole thermostat 0-40°C

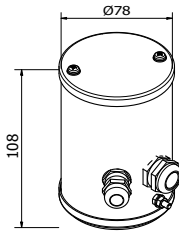
Type AR



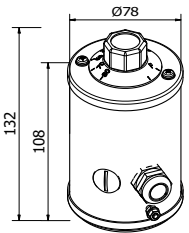
Type BR & DR



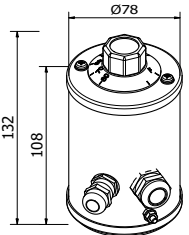
Type NR & OR



Type ER



Type MR



## HEATING OF LIQUIDS

### HO-FLOW HEATER

The HO system is suitable when it is not possible to install an immersion heater into the water. The heating element is a standard immersion heater with 2" brass plug mounted with a junction box type H (see page 22). The flow heater is made of black steel and is insulated.

Item no.	
98901002	Heater mounted with electric cartridge 3 x 400 V, 3 kW with control box, thermostat 30-85°C, thermofuse 110°C
92804848	Immersion heater 3 kW 3x400 V 2" (spare part for 98901002)
98901010	Heater mounted with electric cartridge 3 x 400 V, 4,5 kW with control box, thermostat 30-85°C, thermofuse 110°C
92804855	Immersion heater 4,5 kW 3x400 V 2" (spare part for 98901010)
98901028	Heater mounted with electric cartridge 3 x 400 V, 6 kW with control box, thermostat 30-85°C, thermofuse 110°C
92800861	Immersion heater 6 kW 3x400 V 2" (spare part for 98901028)
98901036	Heater mounted with electric cartridge 3 x 400 V, 9 kW with control box, thermostat 30-85°C, thermofuse 110°C
92800887	Immersion heater 9 kW 3x400 V 2" (spare part for 98901036)



### JEVITHERM FROST PROTECTION UNIT

Jevitherm is used for frost protection of drinking water systems in stables, but can also be used for other liquids and heating systems. Jevitherm is approved according to EN 60-335-1 and EN 60-335-2-21 (only approved for drinking water). Delivered with 0-40°C thermostat - please contact our technical department for further information.

Item no.	
38000238	Jevitherm 3000, 230 V/400 V Delivered without shield and safety valves. For small systems in which additives are not added to the drinkingwater. Proofing IP44
23197577	Immersion heater 3 kW, 3x400 V
09016098	Cover for Jevitherm 3000, made of painted steel
11010857	Safety device, 3/4" brass max. 8 bar
11010865	High pressure vacuum valve, brass for max. Ø32 mm distributing main
11010873	High pressure vacuum valve, stainless steel for max. Ø32 mm distributing main





**TERMODYP BATH HEATERS**



Termodyp bath heaters are used for degreasing systems, deacidification baths and in the galvanic industry. To achieve a long life it is important to choose the optimal sheath material depending on the chemicals to be used in the bath. Is supplied with 2 metre cable, cold zone is standard 150 mm - other lengths upon request. Delivery time is approx. 2 days for below mention products - which only represent a small part of our product range.

Item no.			
<b>Steel - Ø42</b>			
81806010	230 V	1000 W	L600 mm
81806028	230 V	1500 W	L600 mm
81806036	400 V	1500 W	L600 mm
81808016	230 V	1500 W	L800 mm
81808024	230 V	2500 W	L800 mm
81808032	400 V	2500 W	L800 mm
81808040	3 x 400 V	2500 W	L800 mm
81801011	400 V	3250 W	L1000 mm
81801029	3 x 400 V	3250 W	L1000 mm
81801219	400 V	4000 W	L1200 mm
81801227	3 x 400 V	4000 W	L1200 mm
<b>Stainless AISI 316 - Ø42,5</b>			
81806218	230 V	1000 W	L600 mm
81806226	230 V	1500 W	L600 mm
81806234	400 V	1500 W	L600 mm
81808214	230 V	1500 W	L800 mm
81808222	230 V	2500 W	L800 mm
81808230	400 V	2500 W	L800 mm
81808248	3 x 400 V	2500 W	L800 mm
81801045	400 V	3250 W	L1000 mm
81801052	3 x 400 V	3250 W	L1000 mm
81801243	400 V	4000 W	L1200 mm
81801250	3 x 400 V	4000 W	L1200 mm
<b>Titanium - Ø40</b>			
81806416	230 V	1000 W	L600 mm
81806424	230 V	1500 W	L600 mm
81806432	400 V	1500 W	L600 mm
81808412	230 V	1500 W	L800 mm
81808420	230 V	2500 W	L800 mm
81808438	400 V	2500 W	L800 mm
81808446	3 x 400 V	2500 W	L800 mm
81801078	400 V	3250 W	L1000 mm
81801086	3 x 400 V	3250 W	L1000 mm
81801276	400 V	4000 W	L1200 mm
81801284	3 x 400 V	4000 W	L1200 mm

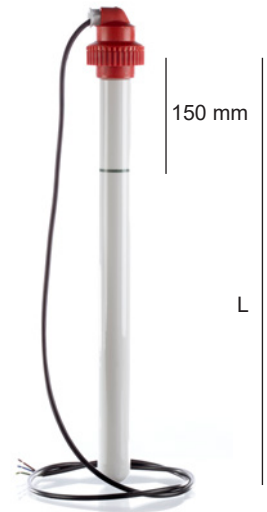
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## HEATING OF LIQUIDS

Item no.			
<b>Glass - Ø44</b>			
80806110	230 V	1000 W	L600 mm
80806128	230 V	1500 W	L600 mm
80806136	400 V	1500 W	L600 mm
80808116	230 V	1500 W	L800 mm
80808124	230 V	2500 W	L800 mm
80808132	400 V	2500 W	L800 mm
80808140	3 x 400 V	2500 W	L800 mm
80801111	400 V	3250 W	L1000 mm
80801129	3 x 400 V	3250 W	L1000 mm
<b>Porcelain - Ø45</b>			
80806011	230 V	1000 W	L600 mm
80806029	230 V	1500 W	L600 mm
80806037	400 V	1500 W	L600 mm
80808017	230 V	1500 W	L800 mm
80808025	230 V	2500 W	L800 mm
80808033	400 V	2500 W	L800 mm
80808041	3 x 400 V	2500 W	L800 mm
80801012	400 V	3250 W	L1000 mm
80801020	3 x 400 V	3250 W	L1000 mm
80801210	400 V	4000 W	L1200 mm
80801228	3 x 400 V	4000 W	L1200 mm

For regulation of Termodyp Bath Heaters - see page 39



Porcelain

## CERAMIC HEATING ELEMENTS

Ceramic heating elements are primarily used for heating of water, liquids, oils, ovens and machines. The elements are often mounted in a tube, thus exchange of the element is possible without emptying the tub or container - please contact our technical department for further information.



## DRUM HEATER

The drum heater is suitable for drums containing liquids and oil as well as other fluids. The drum heater is supplied with an on/off diode, 30-110°C thermostat and 175°C thermofuse. The heater is produced according to EN 60-335-1.

Item no.			
56800113	Ø580 x 200	230 V	1000 W
56800121	Ø580 x 200	230 V	1500 W
56800139	Ø580 x 200	230 V	2000 W



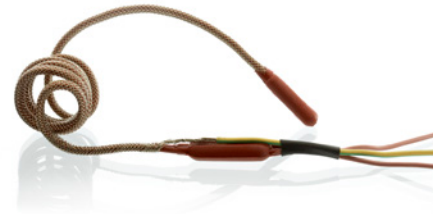
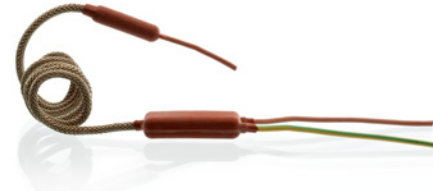
## SILICONE HEATING CABLES

Silicone heating cables are used for tracing of pipes, protecting freezing compartment frames as well as various tasks requiring a high temperature. Max temperature on cable is 170°C and max. output is 40 W/m. The cable must not get in contact with oil or animal fat! Silicone heating cables are custom-made.

Please contact us for special price of silicone heating cables over 10 meters.

Item no.	
86xxxxxx	SI-heating cable with screen. Ø3,8 mm Basic price incl. 2 connectors and 0,5 m cold tail Price per metre heating cable Price per extra metre cold tail 3 x 1 mm <sup>2</sup> (single conductor)
86xxxxxx	SI-heating cable with screen - twin conductor. 7x4 mm Basic price incl. 2 connectors and 0,5 m cold tail Price per metre heating cable Price per extra metre cold tail 3 x 0,75 mm <sup>2</sup> cable
19805076	Alu tape on rolls, without liner Width 50 mm, length 50 metre
19805357	Alu tape on rolls with liner Width 50 mm, length 25 metre
86000080	Joining kit for silicone heating cables

*An electronic thermostat 610 is used for temperature regulation of silicone heating cables  
- see page 40*



## SELFLIMITING HEATING CABLES



Selflimiting heating cables are used for frost protection or temperature maintenance. Typical applications are cold water pipes, sprinkler pipes, heating pipes, drain pipes, heating oil pipes and degreasing systems.

**Selflimiting heating cable is only available in full meters.**

Item no.		
<b>Cable type HGM, HGR, Traceco max 65°C</b>		
98600530	11HGM2-CR	11 W/m at 10°C/230V Approvals: ETL, EAC, CE
98600531	17HGM2-CR	17 W/m at 10°C/230V Approvals: ETL, EAC, CE
98600533	10HGR2-CR	10 W/m at 10°C/230V Approvals: UL, CSA, ETL, IECEX, ATEX, EAC, CE
98600534	25HGR2-CR	25 W/m at 10°C/230V Approvals: UL, CSA, ETL, IECEX, ATEX, EAC, CE
98600535	40HGR2-CR	40 W/m at 10°C/230V Approvals: UL, CSA, ETL, IECEX, ATEX, EAC, CE
98600012	Traceco-30	30 W/m at 10°C/230V NON ATEX
<b>Cable type HGP, max 110°C</b>		
98600536	31HGP2-CR	31 W/m at 10°C/230V Approvals: IECEX, ATEX, EAC, CE
<b>Cable type HGS, max 120°C</b>		
98600537	30HGS2-CT	30 W/m at 10°C/230V Approvals: ATEX, IECEX, EAC, CE
98600538	45HGS2-CT	45 W/m at 10°C/230V Approvals: ATEX, IECEX, EAC, CE
98600539	60HGS2-CT	60 W/m at 10°C/230V Approvals: ATEX, IECEX, EAC, CE

### Accessories for selflimiting heating cables

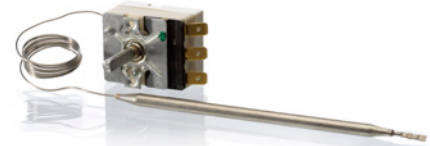
Item no.	
98600307	Termination kit for connecting cable, NON ATEX
98600114	Junction box ELBE-8, 125x125x75 mm, IP65, NON ATEX
98600302	Termination kit ELSKR-1 (for ELBE-8), NON ATEX
98600550	Junction box, 110x110x66 mm, IP66
98600551	Junction box for ATEX cable, 122x122x76,5 mm
98600555	Termination kit for junction box with cable gland. ATEX
98600561	Termination kit for junction box without cable gland. NON ATEX
98600562	Cable gland for cable type HGM
98600563	Cable gland for cable type HGR, HGP, HGS
98600552	Support for junction box, tangential
98600553	Support for junction box, axial
98600556	PVC fixing tape to 90°C (20 m)
98600557	Aluminium fixing tape -40°C to +120°C (50 m)
98600558	Glass fiber fixing tape +260°C (50 m)

## CAPILLARY THERMOSTATS

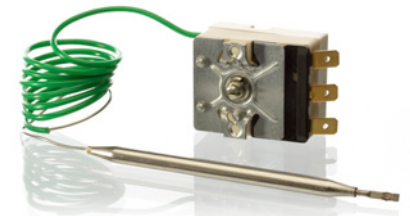


### CAPILLARY THERMOSTATS 1-POLE 16A/400 V

Item no.	
19002368	0-45°C, with short shaft capillary pipe 390 mm, sensor Ø6,0 x 113 mm
19002369	0-45°C, capillary pipe 390 mm, sensor Ø6,0 x 113 mm
19002351	0-45°C, knob Ø43,0 mm
19001007	0-40°C, with change-over contact capillary pipe 850 mm, sensor Ø6,0 x 147 mm
19001858	0-40°C, knob Ø50,0 mm
19001015	30-85°C, capillary pipe 850 mm, sensor Ø6,0 x 93 mm
19001809	30-85°C, knob Ø50,0 mm
19001346	30-93°C, capillary pipe 1730 mm, sensor Ø6 x 92 mm
19002542	30-93°C, knob Ø50,0 mm
19001031	30-110°C, capillary pipe 850 mm, sensor Ø6,0 x 115 mm
19001825	30-110°C, knob Ø50,0 mm
19001064	30-110°C, with change-over, short shaft with notch, capillary pipe 830 mm, sensor Ø6,0 x 113 mm
19001338	50-250°C, capillary pipe 1130 mm, sensor Ø3,0 x 201 mm
19001908	50-250°C, knob Ø50,0 mm
19001395	50-281°C, capillary pipe 850 mm sensor Ø3,0 x 160 mm, with switch
19001833	50-300°C, knob Ø50,0 mm
19001643	100-580°C, with change-over contact capillary pipe 1130 mm, sensor Ø4,0 x 163 mm
19000140	50-500°C, knob Ø50,0 mm
19001536	-35 til +35°C, in box with fixed sensor
19001577	0-40°C, in box with capillary pipe 1500 mm, sensor Ø6 x 115 mm
19900562	0-40°C, in box with capillary pipe 1500 mm, sensor Ø6 x 115 mm and sensor tube



Item no. 19001007



Item no. 19001064

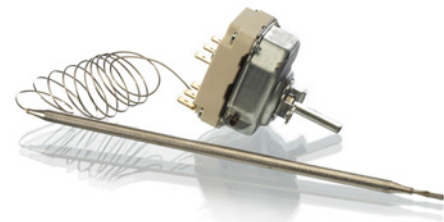


Item no. 19001536

## REGULATION

### CAPILLARY THERMOSTATS 3-POLE 16A/400 V

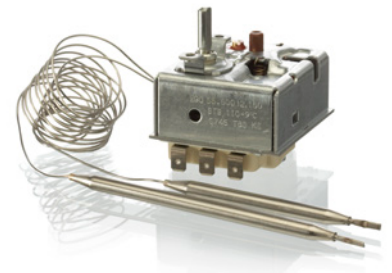
Item no.	
19001080	0-40°C, capillary pipe 870 mm, sensor Ø6,0 x 215 mm
19001858	0-40°C, knob Ø50,0 mm
19001288	0-46°C, three steps 0 - 3 - 6°C capillary pipe 880 mm, knob Ø6,0 x 215 mm
19001858	0-40°C, knob Ø50,0 mm
19001122	30-85°C, capillary pipe 870 mm, sensor Ø6,0 x 131 mm
19001809	30-85°C, knob Ø50,0 mm
19001114	30-110°C, with change-over contact capillary pipe 880 mm, sensor Ø6,0 x 235 mm
19001825	30-110°C, knob Ø50,0 mm
19001106	50-300°C, capillary pipe 870 mm, sensor Ø6,0 x 75 mm
19001833	50-300°C, knob Ø50,0 mm
19001171	60-200°C, three steps 0 - 10- 20°C capillary pipe 1740 mm, sensor Ø6,0 x 179 mm
19001817	60-200°C, knob Ø50,0 mm



Item no. 19001080

### COMBINED THERMOSTATS 3-POLE 20A/400 V

Item no.	
19001270	30-85°C, with thermofuse 110°C, frost protection 7°C, capillary pipe 870 mm sensor Ø6,0 x 129 mm/Ø6,0 x 92 mm
19001809	30-85°C, knob Ø50,0 mm
19001570	30-85°C, short shaft with notch, with thermofuse 110°C, capillary pipe 870 mm, sensor Ø6,0 x 129 mm/Ø6,0 x 92 mm
19001668	0-45°C, capillary pipe 870 mm with thermofuse 76°C, sensor Ø6,0 x 182 mm/Ø6,0 x 94 mm
19002351	0-45°C, knob Ø41,0 mm



Item no. 19001270

### ENERGY REGULATING DEVICES

Item no.	
19100072	13 A/230 V
19100908	0 - 1 - 2 - 3, knob Ø50 mm



Item no. 19100072



## REGULATION

### THERMOFUSES

Item no.	
19004600	JUMO 1-pole 113°C, 16A / 400V, capillary pipe 1000 mm, sensor Ø6,0 x 66 mm, 70-130°C
19004601	JUMO 1-pole 175°C, 16A / 400V, capillary pipe 1000 mm, sensor Ø6,0 x 85 mm, 50-300°C
19004602	JUMO 1-pole 400°C, 16A / 400V, capillary pipe 1000 mm, sensor Ø6,0 x 100 mm, 350-500°C
19004605	JUMO 3-pole 110°C, 30A / 480V, capillary pipe 1000 mm, sensor Ø6,0 x 75 mm
19004606	JUMO 3-pole 150°C, 30A / 480V, capillary pipe 1000 mm, sensor Ø6,0 x 75 mm
19004607	JUMO 3-pole 245°C, 30A / 480V, capillary pipe 1000 mm, sensor Ø6,0 x 58 mm
19004608	JUMO 3-pole 360°C, 30A / 480V, capillary pipe 1000 mm, sensor Ø6,0 x 58 mm

### THERMOSTAT AND THERMOFUSE ACCESSORIES

Item no.	
19002310	Scale disc -30°C til +30°C
19001981	Scale disc 0-40°C
19002302	Scale disc 0-90°C
19001967	Scale disc 30-60°C
19001973	Scale disc 30-110°C
19001965	Scale disc 37-85°C
19002311	Scale disc 50-300°C
19001916	Packing set for capillary pipe max. Ø6,0 mm sensor



Item no. 19001890

### THERMOSTATS FOR THERMODYP BATH HEATERS

Item no.	
19830058	Electronic regulator, 5-45°C incl. sensor, 3-pole + N, 16A, 3x400/230 V
19830025	Separate sensor for regulator, 5-45°C
19830009	Electronic regulator, 10-110°C incl. sensor, 3-pole + N, 16A, 3x400/230 V
19830017	Separate sensor for regulator, 10-110°C

## REGULATION

### ELECTRONIC THERMOSTATS

#### Item no.

19113554	Electronic thermostat 330 with wire sensor, for DIN-rail mounting, 230 V, 16/10 A with 2,5 m. NTC-sensor, range -10°C to +10°C
19113562	Electronic thermostat 330 with wire sensor, for DIN-rail mounting, 230 V, 16/10 A with 2,5 m. NTC-sensor, range 5°C to 45°C
19113589	Electronic thermostat ETI with wire sensor, for DIN-rail mounting, 230 V, 10 A with 2,5 m. NTC-sensor, range 10°C to 110°C, adjustable hysteresis
19116128	Electronic thermostat 610 in box with wire sensor, IP44, 2-pole, 230 V, 16/10 A with 2,5 m. NTC-sensor, range -10°C to 50°C



Item no. 19113554



Item no. 19116128

## REGULATION

### TRIAC SERIES

Triac series is used for regulation of small electric duct heaters.

Item no.	
19113190	Triac TTC2000, regulator for mounting 3 x 230 V: 1,2-10,0 kW 3 x 400 V: 2,0-17,2 kW For external temperature sensor. Internal or external temperature setting. Alternative 0-10 V DC control signal
19113208	Printed circuit board TT-S1 for TTC2000, for external contactor to regulate the same output as the regulator
19119205	Triac Pulser® (920). Regulator for mounting 1 x 230 V: 230-3600 W 1 x 400 V: 400-6400 W With 0-30°C room sensor and temperature setting. It is possible to connect an external sensor and temperature setting.
19119807	Duct sensor -30 to +30°C, TG-K300 for TTC2000 and Pulser®
19119809	Duct sensor 0-30°C, TG-K330 for TTC2000 and Pulser®
19119817	Duct sensor 20-50°C, TG-K350 for TTC2000 and Pulser®
19119820	Max/min. duct sensor 0-60°C, TG-K360 for TTC2000
19119834	Duct sensor 40-70°C, TG-K370 for TTC2000 and Pulser®
19004595	Knob 20-50°C for TTC2000 (nr. 3608)
19004596	Knob 20-50°C for Pulser® (nr. 1588)
19119252	Remote control for panel installation -20 to +10°C, TBI-10 for TTC2000 and Pulser®
19119254	Remote control for panel installation 0-30°C, TBI-30 for TTC2000 and Pulser®
19119262	Remote control for panel installation 20-50°C, TBI-50 for TTC2000 and Pulser®



TTC 2000



Pulser 920

## ACCESSORIES

### ACCESSORIES

Item no.	
09005026	Terminal block - porcelain (picture A) 2-pole, 2,5 mm <sup>2</sup> , L20 x D18 x W16 mm, 32A, 450V
09005034	Terminal block - porcelain (picture B) 3-pole, 2,5 mm <sup>2</sup> , L34 x D18 x W21 mm, 32A, 450V
09005133	Terminal block - porcelain (picture C) 2-pole, 2,5 mm <sup>2</sup> , L33 x D9 x W23 mm
09005141	Terminal block - porcelain (picture D) 2-pole, 6 mm <sup>2</sup> , L40 x D13 x W28 mm, 44A, 750V
19812049	Connector - straight (picture E) Made of simuline/porcelain. Max. 400°C
19812056	Connector - angle (picture F) Made of simuline/porcelain. Max. 400°C
19812031	Connector - straight 344-si (picture G) Made of silicone. Max. 200°C (short 300°C), 10/16A, 250V
19812007	Connector - straight 444-si (picture H) Made of silicone. Max. 200°C (short 300°C), 10/16A, 250V
18040360	Connector (picture I) For external installation. 10/16A, 250V
19812015	Connector 444.1 (picture J) For installation on frame. 10/16A, 250V
19812023	Connector 444.5 (picture K) For external installation. 10/16A, 250V
19812063	Connector - angle 444-si (picture L) Made of Silopren. 16A, 250V
19812064	Connector - angle 344-si (picture M) Made of silopren. 16A, 250V



### SILICONE-FLEX

Item no.		
04001137	Ø10 mm max. 180°C, 1500 V	bag with 10 m

### HEAT-RESISTANT CABLES

Item no.		
03001096	Cable 1,5 mm <sup>2</sup> , 400°C, 2000 V	bag of 10 m

## TERMS AND CONDITIONS OF SALE, DELIVERY, REPAIR AND SERVICE

Unless otherwise specified in these terms and conditions, NL 92 (NLM 94 or ORGALIME S92 respectively) shall apply.

Definitions: Seller: the company wishing to sell its products. Buyer: the natural person and legal entity who is responsible for and buys the Seller's products. Products: the products specified in the order confirmation or other document and, in which is apparent from the context, that units, parts, accessories, repairs or service are included.

### 1. Prices

All prices are exclusive of value-added tax (VAT) and any government tax and are issued subject to changes in public charges, and charges imposed on materials and wages. The Seller has the right to change prices and issue a supplementary invoice in the event the Buyer does not comply with the quantities and/or deadlines confirmed by the Seller or otherwise agreed between Buyer and Seller, including as a result of exchange-rate changes, rising prices for materials, price increases from external suppliers, changes to customs duties, changes to wages, government intervention or similar circumstances over which the Seller has only limited or no control.

### 2. Delivery times

The delivery time specified is subject to force majeure. Notifications by the Seller concerning delivery times/dates shall be considered expected delivery times/dates only. The Buyer may not claim compensation for costs/losses that are directly or indirectly due to delayed deliveries.

### 3. Terms of delivery

Delivery is ex works, Incoterms 2020, and delivery is deemed as having taken place once the product is reported ready for pick-up or transferred to a shipping agent, respectively. Dispatch is at the Buyer's risk. The Seller does not take out transport insurance, but endeavours to carefully package products at all times. For consignments less than EUR 100,00, a handling fee of EUR 34,00 will be charged. Unless otherwise agreed, special-order products are delivered on the following terms: Up to and including 100 units, +/- 5 units. From and including 101 units, +/-5%, however for goods sold by the metre (such as heating cables) +/-10%. For the dispatch of reels, in wooden boxes, on wooden pallets, and the like, the packaging will be credited provided that it is returned carriage paid and undamaged to the Seller.

### 4. Payment and interest

Unless otherwise agreed, payment is cash on delivery or thirty (30) days net. In the event of overdue payment, current interest of 1.5% will be charged per month or any part thereof, from the due date, but a minimum charge of EUR 6,50. The amount includes a reminder fee. The Buyer is not entitled to withhold payment due to any counterclaim that is not acknowledged by the Seller. At the discretion of the Seller, the Seller is entitled to refrain from delivering the products until the Buyer has met the Seller's claim for payment, such as payment in advance or payment of any outstanding amount to the Seller.

### 5. Returning of goods

Provided that the Buyer has obtained the Seller's consent, that the Buyer has advised the Seller of the invoice date and number and that the products are returned carriage paid in intact original packaging within one (1) month of delivery, the Seller agrees to credit the Buyer for the return of said products at the risk and expense of the Buyer with the invoiced value of the product, and the Seller is entitled to deduct a return charge of 15% of the invoiced value, but a minimum of EUR 34,00. A return number will be issued by our sales office. Other products – e.g. products manufactured to the Buyer's specifications, products which deviate from our standard types or special-order products purchased by the Seller – cannot be credited.

### 6. Complaints

Complaints concerning deficiencies or other visible faults and shortcomings shall be sent to the Seller in writing within eight (8) days of receiving the consignment; otherwise the Buyer is precluded from claiming this type of complaint. In order for a complaint to be claimed, the product concerned shall be returned to us. The reason for the complaint, as well as the installation/commissioning date shall be clearly specified on the complaint form, which is to be attached to each product that is the subject of the complaint, in the event that different faults are cited for a return. Furthermore, identification of the product shall be included in the complaint report.

### 6a. Remedying faults and deficiencies

Products that within twelve (12) months from the delivery date may turn out to be encumbered with faults or deficiencies attributable to the Seller and which the Buyer should not have ascertained upon delivery and which immediately after being discovered and before the expiry of the specified deadline are sent at the Buyer's expense and risk to our address will be compensated in such a way that the Seller has the option of repairing or replacing the submitted product or refunding the price of the product. If the Seller assesses that the product cannot be submitted, the product will be repaired on site pursuant to an agreement between the Seller and Buyer.

If the Seller's examinations reveal that the product is not defective, the Seller is entitled to return the product to the Buyer at the Buyer's expense and risk, and the Seller may demand payment for time spent and materials used to carry out the examinations.

### 6b. Construction

The Seller is exclusively experienced in the manufacture of its own products and not necessarily in their use. For this reason, the Buyer assumes full responsibility for the suitability of the products for the Buyer's intended use. Thus, the Buyer is responsible for trying out the Seller's product before installing it in the construction in which the Seller's product shall be integrated. Furthermore, the Buyer is responsible for trying out the finished construction after the installation of the Seller's product before resale.

### 6c. Responsibility for installation and use

The Seller's liability is restricted solely to the product delivered by the Seller (cf. 6b). Damage caused by overheating or corrosion is not covered by the Seller's liability. The Seller

cannot assume liability for use that is in contravention of current electrical regulations or the Seller's instructions for installation or use nor for applications that are not in conformity with generally sound technical principles.

### 6d. Service beyond the scope of our responsibility

If the Seller provides service during the period of warranty, and the Seller's examinations show that the product is not encumbered with faults or deficiencies for which the Seller is responsible, the Seller reserves the right to charge the Buyer in the alternative for the charges relating to this service. Products that are not covered by the warranty (cf. item 6a) will be repaired at current prices.

### 7. Product liability

The Seller's liability is limited, as specified in NLM 94, Section 36 of NL 92, which is worded as follows: The Seller can only be held liable for personal injury if it can be proven that the injury is due to error or neglect committed by the Seller or by others for whom the Seller is responsible. The Seller is not responsible for damage to real property or movables which occurs while the equipment is in the Buyer's possession. Nor is the Seller responsible for damage to products manufactured by the Buyer or to products in which these are incorporated. The Seller is not responsible for operating loss, lost earnings nor other indirect loss. To the extent the Seller is ordered to assume product liability vis-à-vis a third party, the Buyer is under an obligation to indemnify the Seller to the same extent to which the Seller's liability is limited pursuant to the preceding three paragraphs. These limitations to the Seller's liability do not apply if the Seller commits gross negligence. If a third party files a claim against either party concerning product liability pursuant to this item, said party shall notify the other party of this without delay. The Seller and Buyer are under a mutual obligation to submit to legal action before a court of law or arbitration which processes compensation claims filed against either one of them on the basis of damage that is alleged to have been caused by the equipment. The limitations to the Seller's liability do not apply to the extent that this is at variance with mandatory product liability legislation. ORGALIME S92 applies to supplies outside the Nordic Region.

### 8. Limitations of liability

The Seller is not responsible vis-à-vis the Buyer for any of the following types of loss or damage that may arise from or relate to an agreement that is governed by these terms and conditions of sale and delivery: 1) any and all loss resulting from the lost production, profit, turnover, goodwill or expected savings; or 2) any and all loss or destruction of data; or 3) any and all consequential or indirect loss. The Seller's responsibility for loss or damage that might arise from or relate to an agreement governed by these terms and conditions of sale and delivery shall be limited to the total amount which the Seller has invoiced to the Buyer for the agreement in question.

### 9. Product specifications

Notwithstanding product specifications in quotations, brochures, drawings and similar, the Seller reserves the right to make technical modifications within the agreed quality norms.

### 10. Title

The Seller retains title to its presentation of ideas, drawings, descriptions, models, samples and similar and these may be recalled on demand from the Seller. The Buyer may not in any way whatsoever use or disclose the Seller's presentation of ideas, drawings, descriptions, models, samples or similar to a third party without the written permission of the Seller.

### 11. Force majeure

The Seller is entitled to cancel orders or postpone agreed delivery of products and is otherwise free from responsibility for any and all lacking, deficient or delayed delivery that is due wholly or partly to circumstances that are beyond the reasonable control of the Seller, such as insurrection, unrest, war, terrorism, fire, strike, industrial conflict, the rationing of oil and petrol, border closures, illness, epidemics, natural disasters, pollution disasters, prohibitions arising from or pursuant to legislation, as well as any other administrative decision or order, transport irregularities, scarcity of goods or a lack of or shortage in deliveries from suppliers, accidents in the production process or during testing. All of the Buyer's remedies are suspended or cease in such instances. The Buyer may not claim compensation in damages, nor claim any damages for that matter, from the Seller in the event of cancellation or postponed implementation.

### 12. Applicable law and venue

Any and all disputes between the Seller and Buyer are to be settled pursuant to Danish law and shall be brought before the Court of Kolding in the first instance. If so preferred by the Seller, a case may instead be assigned to the Western High Court of Denmark or the Copenhagen Maritime and Commercial High Court.



**JEVIΩ**

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